HighPoint

Technologies, Inc.

RocketRAID 2700 Series
PCI-E 2.0 x8/x16 6Gb/s SAS/SATA RAID HBA's

RocketRAID

The Industry's Most Cost-Effective & Comprehensive Selection of SAS/SATA 6Gb/s RAID HBA's

HighPoint RocketRAID 2700 HBA's are the most diverse, versatile and cost-effective RAID HBA's available in today's marketplace. Powered by our industry-proven RAID technology, industry-standard Mini-SAS connectivity with support for up to 32 devices and PCI-Express 2.0 x8 and x16 bus speeds, RocketRAID 2700 HBA's can be easily integrated into a variety of hardware and software platforms, and are ideal for cost-effective, high-density SMB applications.

HighPoint RAID Technology

For over a decade, HighPoint has strived to take the cost and complexity out of RAID. HighPoint was the first to introduce affordable RAID 5 solutions to the storage marketplace, for both SMB and consumer applications. Our industry-proven RAID technology keeps costs in check by fully utilizing available system resources in order to optimize data transfer and security, and supports a wide-range of storage configurations including RAID 0, 1, 5, 6, 10, 50 and JBOD.

Wide Selection of RAID HBA Configurations

Powered by industry-standard Mini-SAS connectivity with support for up to 32 devices, and PCI-Express 2.0 x8 and x16 bus speeds, RocketRAID 2700 HBA's can be easily integrated into a variety of hardware and software platforms, and are ideal for cost-effective, high-density SMB applications.

Complete, Flexible Upgrade Paths

RocketRAID 2700 HBA's are fully backwards compatible with SAS/SATA 3Gb/s devices, PCI-Express 1.0 and 2.0 motherboards, and are compliant with all major operating systems including Windows, Linux, and macOS.

RAID arrays can be freely moved to any other RocketRAID 2700 HBA. Upgrading, scaling and expanding storage has never been easier.

Comprehensive RAID & Storage Management Interface

The streamlined web-based user interface simplifies the storage configuration process and allows customers to quickly asses total available capacity, the status of individual hard drives or SSD's, and the health of storage configurations. Optional auto rebuild and hot spare features add additional layers of data security to redundant RAID 5 and 6 configurations.
Administrators can designate unused drives to automatically take the place of failed units or configure the RocketRAID HBA to immediately initialize rebuild process by simply plugging in a new drive.
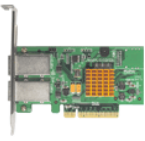
Feature Highlights

- HighPoint RAID Technology: RAID 0, 1, 5, 6, 10, 50 JBOD

- Wide Selection of HBA RAID Configurations: 4-32 Ports

- Complete, Flexible Upgrade Paths

- Comprehensive RAID & Storage Management Interface

Advanced management features allow customers to manage storage remotely via an internet connection or local network, and configure Email notification to inform one or more users of changing storage conditions while outside of the work environment. In addition, optional CLI packages are available for Linux and FreeBSD platforms.

RocketRAID 2700 PCIe x8 RAID Controllers Feature Specifications	
Port Type	RocketRAID 2720A - 2x SFF-8087 (Mini-SAS) - (replacement for RocketRAID 2720SGL) RocketRAID 2722 - 2x SFF-8088 (Mini-SAS)
Number of Channel / Port	RocketRAID 2720A -8x 6Gb/s internal SAS/SATA Channels RocketRAID 2722 -8x 6Gb/s external SAS/SATA Channels
Number of Devices	RocketRAID 2720A/2722: 8x SAS /SATA Hard Drive or SSD
Bus Interface	PCIe 2.0 x8
Form Factor	Low Profile
Controller Dimensions	RocketRAID 2720A - 3.79" L x 2.56" H x 0.53" D RocketRAID 2722 - 4.72" L x 2.68" H x 0.53" D
Package Weight	RocketRAID 2720A - 0.37 lbs. RocketRAID 2722 - 0.42 lbs.
RAID Mode	0, 1, 5, 6, 1/0, 5/0 and JBOD / Non-RAID Mode *(Note: RAID 6 not supported by macOS. Bootable RAID 6 arrays are not supported.)*
Operating System	Window Server 2008 and Window 7 and later
	Linux: RedHat Enterprise, Open SuSE, Fedora Core, Debian, Ubuntu
	macOS 10.6 and later
	Driver embedded into macOS 10.8 and later
Advanced RAID Features	
Flash ROM for Upgradeable BIOS	Yes
Storage Health Inspector	Yes
Redundant RAID Configurations	Yes
BIOS PnP (plug and play) and BBS (BIOS boot specification) support	Yes: RocketRAID 2720A
Bootable RAID Array	Yes
Multiple RAID Partitions supported	Supports up to 4 RAID partition per disk
Storage Configurations Support Details	Direct Attached
Multiple RAID Adapters supported	Supports up to 4 RAID controllers per system
Online Array Roaming	Yes
Online RAID Level Migration (ORLM) - *(Not supported by macOS)*	Yes
Online Capacity Expansion (OCE) - *(Not supported by macOS)*	Yes
RAID Initialization Background/Foreground/Quick	Yes
Global Hot Spare Disk support	Yes
Automatic and configurable RAID Rebuilding Priority	Yes
Disk Format compatible: 512, 512e, 4Kn	Yes
Larger than 2 TB Drive and RAID Array support	Yes
Spin down Massive Arrays of Idle Disks support	Yes
Native Command Queuing	Yes
Staggered Drive Spin Up	Yes
Write Back and Write Through	Yes

RAID Monitoring and Management Suite	
RAID Monitoring and Management Suite	RAID Management Suites: BIOS/UEFI/Firmware configuration tool Browser-Based management tool CLI (Command Line Interface- scriptable configuration tool) API package
Enclosure Management Interface: SGPIO, SES-2 and I2C (Drive LEDs supported: SGPIO, SES-2 and LED Header)	Yes (RocketRAID 2722 only supports SES)
SMTP Email Alert Notification	Yes
Alarm Buzzer	Yes
Operating Environment	
Work Temp:	+5°C ~+ 55°C
Storage Temp:	-20°C ~ +80°C
Relative Humidity:	5% ~ 60% non-condensing
Operating Voltage:	PCI-e: 12V/3.3V Power: 11W
MTBF (Mean Time Before Failure)	920,585 Hours
Certification Approval	CE, FCC, RoHS, REACH, WEEE

RocketRAID 271x/272x Series	RocketRAID 2720A *(replacement for RocketRAID 2720SGL)*	RocketRAID 2722
Product Image		
Host bus Interface	PCI-Express 2.0 x8	PCI-Express 2.0 x8
Number of Device Ports	8 Internal Ports	8 External Ports
Form Factor	Low Profile	Low Profile
Retail Box Dimensions	7.76" L x 6.81" W x 1.18" H	7.76" L x 6.81" W x 1.18" H
Retail Box Weight	0.37 lbs.	0.42 lbs.
UPC Code	643653272051	643653272211
Kit Contents	1x controller card 1x Low Profile Bracket 1x Quick Installation Guide	1x controller card 1x Low Profile Bracket 1x Quick Installation Guide

RocketRAID 2700 PCIe x16 RAID Controllers	
Port Type	RocketRAID 2744 - 4x SFF-8088 (Mini-SAS) RocketRAID 2782 - 6x SFF-8087 & 2x SFF-8088 (Mini-SAS)
Number of Channel / Port	RocketRAID 2744 -16x 6Gb/s SAS/SATA Channels RocketRAID 2782 -32x 6Gb/s SAS/SATA Channels
Number of Devices	RocketRAID 2744 -16x SAS /SATA Hard Drive / SSD RocketRAID 2782 -32x SAS /SATA Hard Drive / SSD
Bus Interface	PCIe 2.0 x16
Form Factor	Full Height
Controller Dimensions	RR2744 - 5.51" L x 4.21" H x 0.53" D RR2782 - 7.80" L x 4.37" H x 0.53" D
Package Weight	RocketRAID 2744 -1.22lbs. RocketRAID 2782 -1.48lbs.
RAID Mode	0, 1, 5, 1/0, 5/0 and JBOD / Non-RAID Mode
Operating System	Windows Server 2008 and Window 7 and later
	Linux: RedHat Enterprise, Open SuSE, Fedora Core, Debian, Ubuntu
	FreeBSD
	Driver embedded into FreeBSD 9.0 and later
	macOS 10.6 and later
Advanced RAID Features	
Flash ROM for Upgradeable BIOS	Yes
Storage Health Inspector	Yes
Redundant RAID Configurations	Yes
Multiple RAID Partitions supported	Supports up to 4 RAID partition per disk
Storage Configurations Support Details	Direct Attached
Multiple RAID Adapters supported	Supports up to 4 RAID controllers per system
Online Array Roaming	Yes
Online RAID Level Migration (ORLM) - *(Not supported by macOS)*	Yes
Online Capacity Expansion (OCE) – *(Not supported by macOS)*	Yes
RAID Initialization Background/Foreground/Quick	Yes
Global Hot Spare Disk support	Yes
Automatic and configurable RAID Rebuilding Priority	Yes
Disk Format compatible: 512, 512e, 4Kn	Yes
Larger than 2 TB Drive and RAID Array support	Yes
Spin down Massive Arrays of Idle Disks support	Yes
Native Command Queuing	Yes
Staggered Drive Spin Up	Yes
Write Back and Write Through	Yes

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RAID Monitoring and Management Suite	
RAID Management Suites: BIOS/Firmware configuration tool Browser-Based management tool CLI (Command Line Interface- scriptable configuration tool) API package	Yes
Enclosure Management Interface: SGPIO, SES-2 and I2C (Drive LEDs supported: SGPIO, SES-2 and LED Header)	Yes (RR2744 only supports SES)
SMTP Email Alert Notification	Yes
Alarm Buzzer	Yes
Operating Environment	
Work Temp:	+5°C ~+ 55°C
Storage Temp:	-20°C ~ +80°C
Relative Humidity:	5% ~ 60% non-condensing
Operating Voltage:	RR2740/2744 -PCI-e: 12V/3.3V Power: 11W RR2760A -PCI-e: 12V/3.3V Power: 40W RR2782 -PCI-e: 12V/3.3V Power:45W
MTBF (Mean Time Before Failure)	920,585 Hours
Certification Approval	FCC, CE

RocketRAID 2700 PCIe x16 RAID Controllers	RocketRAID 2744	RocketRAID 2782
Product Image		
Host Bus Interface	PCI-Express 2.0 x16	PCI-Express 2.0 x16
Number of Device Ports	16 External Ports	24 Internal / 8 External Ports
Retail Box Dimensions	13.38"L x 7.68" W x 2.76" H	13.38"L x 7.68" W x 2.76" H
Retail Box Weight	1.22 lbs.	1.48 lbs.
UPC Code	643653274413	643653278213
Kit Contents	1x controller card 1x Quick Installation Guide	1x controller card 1x Low Profile Bracket 1x Quick Installation Guide

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Optional Accessories

INT-MS-1M4SC - The HighPoint INT-MS-1M4SC is an internal mini-SAS (SFF-8087) to 4x SATA device cable designed for use with HighPoint RocketRAID SAS/SATA controllers, and has been tested with a wide range of Enterprise and Pro-NAS class SAS/SATA hard drives and SSD's up to 16TB in capacity.

EXT-MS-1MMS - The Ext-MS-1MMS is a high-speed cable that supports a data bandwidth up to 4x 6Gb/s between the RocketRAID controller installed in the host system, and the RocketStor 6414S/RocketStor 6418S drive enclosure via SFF-8088 ports. Each cable can connect up to 4x Hard Drives or SSDs.

RocketStor 6414S - The RocketStor 6414S is a 4-Bay JBOD enclosure designed for use with the RocketRAID 2700 series external port RAID HBA's to house up to 4x 2.5" or 3.5" Hard Drives or SSDs.

RocketStor 6418S - The RocketStor 6418S is an 8-Bay JBOD enclosure designed for use with the RocketRAID 2700 series external port RAID HBA's to house up to 8x 2.5" or 3.5" Hard Drives or SSDs.